Enhancing Sustained Attention – A Pilot Study on the Integration of a Brain-Computer Interface with an Enterprise Information System



Business & Information Systems Engineering (2021)

Appendix (available online via http://link.springer.com)

Appendix A – Architecture

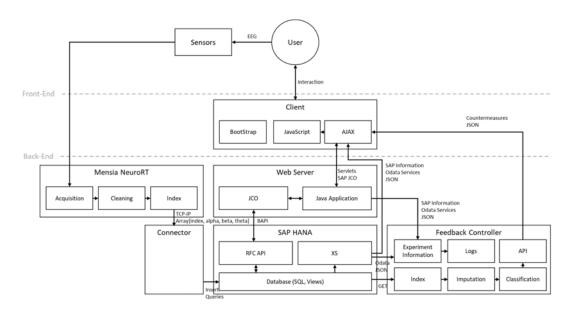


Fig. 12 Integration in SAP HANA architecture

Appendix B – Questionnaire

Raw TLX:

Mental Demand								How mentally demanding was the task?										
	ı		ı		ı		ſ	ĺ	ĺ			1		I		I		
Low												<u> </u>						High
Physical De	mand								ŀ	łow	phys	sicall	y de	man	ding	was	the	task?
	Ì		ı		ı		ı	ĺ	ĺ			ı		I		I		
Low												<u> </u>						High
Temporal I	Deman	ıd					Н	ow	huı	ried	or 1	ushe	ed w	as th	e pa	ce of	the	task?
					1		[]				ĺ		
Low		1					l e	·			ı							High
Performan	ce						How	suc	cces	sful v	were	you	in a	ccon				t you o do?
	Ì				ĺ		Ì					ĺ		Ì		Î		
Excellent			1	-1	ı			<u> </u>						ı				Poor
Effort							How	ha	ırd (lid y	ou h	ave	to w					your ance?
	I		I		1		ı					1		ĺ		ĺ		
Low		1	1		<u> </u>							1				1	1	High
Frustration	l						Hov	v ii	ısec	ure,	disc	oura	ged,					, and you?
		1													1			
		1					1				1				1	1		

Boredom Experience Scale:

Not at all	Slightly	Moderately	Very		Extremely			
1	2	3	4		5			
Durant la simulat	ion,							
	eeling bored, how n	1	2	3	4	(5)		
When you were fe you feel that you did	•	nuch did the feeling make do with your time?	1	2	3	4	⑤	
-	_	nuch did the feeling make gs you would rather do?	1	2	3	4	⑤	
When you were fee you think that the si	_	nuch did the feeling make mportant purpose?	1	2	3	4	(5)	
When you were fe you feel like doing s	•	nuch did the feeling make ely different?	①	2	3	4	(5)	
When you were fe you feel like doing s	_	nuch did the feeling make ful?	①	2	3	4	(5)	
When you were fe you change to more	_	nuch did the feeling make	1	2	3	4	⑤	
When you were fe	•	nuch did the feeling make?	①	2	3	4	(5)	
When you were fe	①	2	3	4	(5)			
When you were fe		nuch did the feeling make	1	2	3	4	(5)	